



## PATENT ABSTRACTS OF JAPAN

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## (54) EXHAUST GAS DAMPER FOR GAS TURBINE

## (57) Abstract:

PURPOSE: To simplify an exhaust gas duct system by providing constitution such that exhaust gas, coming out from a gas turbine, is discharged into the atmosphere through an exhaust gas stack, when the gas turbine is in an individual operation, while drawn out into an exhaust heat recovery boiler in a combined cycle operation.

CONSTITUTION: In the case of starting a gas turbine power generating equipment, first a compressor 1 is driven by actuating an electric drive motor 5, and compressed air is supplied to a combustor 3 and burned with fuel from a fuel pump 6. Generated high pressure combustion gas is supplied to a gas turbine 2 which performs work, and a generator 4 is directly coupled to start power generation when a rotational speed of this gas turbine 2 reaches a rated rotational speed. Here, exhaust gas coming out from the gas turbine 2 is discharged into the atmosphere through an exhaust gas damper 8a and an exhaust gas stack 7 at the time of gas turbine independent operation. On the other hand, the exhaust gas is fed to an exhaust heat recovery boiler 12 through an exhaust gas damper 8b and an exhaust gas

duct 11 so as to recover heat at the time of combined cycle operation.

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